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FEDERAL FACILITIES AGREEMENT SITE MANAGEMENT PLAN FOR CALENDAR YEAR 1996 NAS JACKSONVILLE FL

8/31/1995

NAVFAC SOUTHERN

31 August 1995

JACKSONVILLE NAVAL AIR STATION
FEDERAL FACILITIES AGREEMENT
SITE MANAGEMENT PLAN

CALENDAR YEAR 1996

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1. THE BASIS FOR A SITE MANAGEMENT PLAN

The requirement for this Site Management Plan (SMP) is identified in the Federal Facilities Agreement (FFA) signed by the Environmental Protection Agency, the State of Florida, and the US Navy for Naval Air Station Jacksonville, Florida (the Site). The FFA was entered into based on the requirement for an interagency agreement identified in the Superfund Amendments and Re-authorization Act (SARA), section 120(e)(1). The intent of the plan is to provide: (1) action deemed necessary to mitigate any immediate threat to human health or the environment, (2) a list of operable units subject to the tenets of the FFA, (3) a prioritization and rationale for the operable units at the Site, (4) activities and schedules for work planned for the current year, including the submittal schedule for primary and secondary documents, and (5) work projections for subsequent calendar years. The FFA was signed on 16 October 1990, and has an effective date of 1 November 1990.

This SMP addresses the Installation Restoration Program events that occurred in calendar year 1995 and earlier; that are scheduled to occur in calendar year 1996; and are projected for calendar year 1997 and beyond through the completion of Record of Decision activities. The dates, for the current calendar year that are identified as 'Due Dates' are subject to 'Stipulated Penalties' as discussed in the FFA.

2. OVERALL SITE MANAGEMENT APPROACH

Three major investigation activities have been conducted at the Site, under the Navy Installation Restoration (IR) Program (NIRP) or Superfund Program: Preliminary Assessment (PA) or Initial Assessment Study, Site Inspection (SI) or Verification Study, and Extended Site Inspection (ESI) or Confirmation Study. The PA (1983) identified and assessed 38 potential sources of contamination (PSC) on the Site that could pose a potential threat to human health or the environment as a result of contamination derived from past naval operations. Two additional PSCs were identified by the station during its review of the draft PA, effecting a total of 40 post-PA PSCs. The SI (1985) and ESI (1986) were conducted to confirm or refute the presence of hazardous substances at the PSCs identified in the PA; and, if contamination was detected, evaluate its magnitude and extent to a degree that would allow for the recommendation of future remedial response actions. As a result of IR activities, nine additional sites were identified for a total of 49. In addition to the NIRP/CERCLA program, the station has other active regulatory programs. A Florida RCRA permit was issued to NAS Jacksonville by the Florida Department of Environmental Protection (FDEP). Concurrently, a RCRA/HSWA permit was issued to the installation by USEPA in June 1987. A RCRA Facility Assessment (RFA) was included in the EPA issued permit. An Underground Storage Tank Program is currently investigating over 50 tanks as provided for in Florida Administrative Code Section 17-770.

Of the 49 identified IR PSCs, fourteen are currently being addressed as Remedial Investigation/Feasibility Study PSCs. Of the remaining 24 PSCs require FFA site screening efforts due to data quality objective inadequacies, or data gaps and eleven are anticipated to go NFRAP. Due to the proximity

of 23 PSCs to the St. Johns River, the US Navy shall assess the state of the river immediately about the station.

The SMP provides an IR Program event management plan. The Plan ONLY discusses the management of PSCs that are identified as needing to undergo Phase II: Remedial Investigation, Feasibility Study, and possibly Phase III: Remedial Design and Remedial Action, of the IR/CERCLA Program. Included is a description of the Site's PSC arrangement into Remedial Activity groupings or Operable Units (OU). A list of projected schedule tasks through the signing of a Record of Decision is furnished. Detailed therein are program events to take place in the upcoming year and the delivery date for each draft primary document and a target date for each secondary documents. The Navy shall update the SMP yearly.

3. RATIONALE FOR OPERABLE UNIT PSC GROUPINGS

In order to facilitate implementation of NAS Jacksonville's IR Program, the PSCs are organized into five groups: 3 RI/FS Operable Units (OUs); a PSC Screening group; and Petroleum PSC group. The screening group and the petroleum group will not be further considered in this SMP.

The criteria used to generate the RI/FS OU arrays are (1) geographic proximity of sites, (2) contaminant types, (3) aquifer contamination zones, (4) potential investigation methods, (5) potential scope and complexity of the investigation, (6) remedial activities impact on stations mission, (7) regulatory concerns, and (8) similarity of potential remedial actions.

The PSCs in each OU are:

OU#1: Oil and Solvent Disposal Pits Area

PSC 26, The Old Main Registered Disposal Area
PSC 27, Former Transformer Storage Area

OU#2: Wastewater Treatment Area

PSC 2, Aircraft Fire Fighting Training Area
PSC 3, Former Sludge Disposal Area
PSC 4, Pine Tree Planting Area
PSC 41, Domestic Sludge Drying Beds
PSC 42, Polishing Pond
PSC 43, IWTP Sludge Drying Beds

OU#3: Industrial Area

PSC 11, Hanger 101

PSC 12, Old Test Cell, Building 101K
PSC 13, Radium Paint Waste Disposal Pit
PSC 14, Battery Shop
PSC 15, Solvent and Paint Sludge Disposal Area
PSC 48, Base Dry Cleaners

Operable Unit remedial activities are being phased based on program priorities, schedule effectiveness, task management, and funding capacity. Due to the large number of PSCs on the Site, the number of PSCs in each RI/FS OU, the aggregate complexity of the contamination problem at each OU, and funding limitations, the commencement of work at all OUs concurrently is not feasible; therefore, the Navy has implemented a phased approach. Based on hazardous assessment, the Navy proceeded with RI/FS OU#1 first. The Record of Decision for OU#1 is scheduled for 26 December 1995. The RI/FS for OU#2 is currently underway with completion anticipated in 1997. The RI/FS for OU#3 is in anticipated to start in 1996. This scheduled staggering provided for a coherent effort by the investigative and engineering team enabling a higher quality assessment of the problem and more accurate identification of a suitable remedial response action. The aggregation of the PSCs and the assignment of phasing priorities was based on the eight criteria stated above. The specific aggregation issues are discussed in the accompanying OU Narratives. The assignment of priorities was driven by the actual or potential threat posed by the aggregate known or suspected contamination.

The Oil and Solvent Disposal Pits Area, OU#1, is situated on a topographical high and contains halogenated hydrocarbons and petroleum hydrocarbons. The area drains into a St. Johns River estuary and adjoining wetlands and abuts a military housing area. The potential environmental and human health threat is sufficient to commence IR program RI/FS work at this OU first.

The Wastewater Treatment Area, OU#2, has a known, large areal, heavy metal and potential halogenated hydrocarbon contamination problem. Due to the proximity of the OU to the St. Johns River, there is a sufficient potential threat that makes this OU a number two priority. Additionally, PSCs 41, 42, & 43 are impacted by a RCRA closure Permit.

Although the Industrial Area, OU#3, has known halogenated hydrocarbon contamination, the extent of the problem is unknown. Because the OU abuts the St. Johns River, there is concern about an environmental threat. This large areal industrial development affects a complex investigation. Due to the anticipated time and mission sensitivity of this area, IR efforts at this OU are scheduled to commence last.

NAS Jacksonville's NIRP Plan (Plan) details the overall and specific management of addressing IR remedial activities. Due to the large number of PSCs, economies of scale dictate the singular establishment of plan methodologies and protocols. Volume 1, Organization and Planning, addresses the: organization of the Plan, data and project management functions, specific IR Program sub-plans: Health and Safety Plan, and Community Relations Plan, Site and PSC background information, OU

PSC aggregation process, and activity/OU priority formulation. Volume 2 contains the Remedial Response Decision System (RRDS). Volume 3 will contain Site Screening documentation. Volume 4 contains the basic methodologies and protocols for conducting field investigations, conducting field sampling efforts - Basic Field Sampling Plan (BFSP), and performing field and laboratory analytical activities- Quality Assurance Program Plan (QAPP); the BFSP and the QAPP are combined into one document called the Basic Sampling and Analysis Plan (BSAP). The specific OU RI/FS Work Plans are contained in Volume 5-OU#1, 6-OU#2, and 7-OU#3. Volumes 5, 6 and 7 are in place. Once the basic set of IR/CERCLA work protocols and methodologies contained in the OU#1 specific work plan had concurrence, the development of additional work plans was commenced.

The Navy's Installation Restoration Program Plan for NAS Jacksonville is available for viewing in the information repository at the Webb Wesconnett Branch Library of the City of Jacksonville Public Libraries located at 6887 103rd Street, Jacksonville, Fl. 32212-6897.

4. SITE PSCs SMP EXCLUSIONS

The PSCs identified in Attachment A to the FFA as Site Screening PSCs are not included nor otherwise addressed herein, except in this section. The Navy shall use the Remedial Response Decision System to determine future response activities at the Site Screening PSCs. See NIRP Plan Volume 2 for additional information. If RI/FS activities are recommended, the Navy shall create additional OUs based on the criteria presented to address the contamination and risk issues identified by the RRDS implementation. Additional OUs shall be incorporated into the SMP.

The Petroleum PSC Group, consisting of three PSCs: 7, 19, and 33, have been transferred to the Underground Storage Tank Program as provided for in the FFA for response activities detailed in Florida Administrative Code 17-770 and are not included in the SMP or the Navy's IR Program.

5. OPERATIONAL UNIT SCHEDULING

The implementation of an OU's work plan is based on program, resource and funding priorities. The Navy did not have sufficient funds in the 1995 fiscal year to fully implement the large RI/FS Work Plan for OU#2 and OU#3. Since the Navy could not commit to fully implementing these work plans until the budget for the 1996 Federal fiscal year is funded, these work plans have target funding dates of 1 January 1996.

The Navy does have sufficient funds to pursue smaller work efforts. Accordingly, the Navy shall implement focused RI/FS efforts for specific source control to halt contamination discharge into ground water.

6. 1995-1996 GENERAL SCHEDULE

The following is a list of the general deliverables that are associated with the overall management of the site and their transmittal target and due dates.

1996 GENERAL DELIVERABLES	**TARGET DATES**
1st Qtr. Quarterly Progress Report	30 April 1996
2nd Qtr. Quarterly Progress Report	30 July 1996
3rd Qtr. Quarterly Progress Report	30 October 1996
4th Qtr. Quarterly Progress Report	30 January 1997

PRIMARY DELIVERABLES	**DUE DATES**
1997 Site Management Plan	1 September 1996

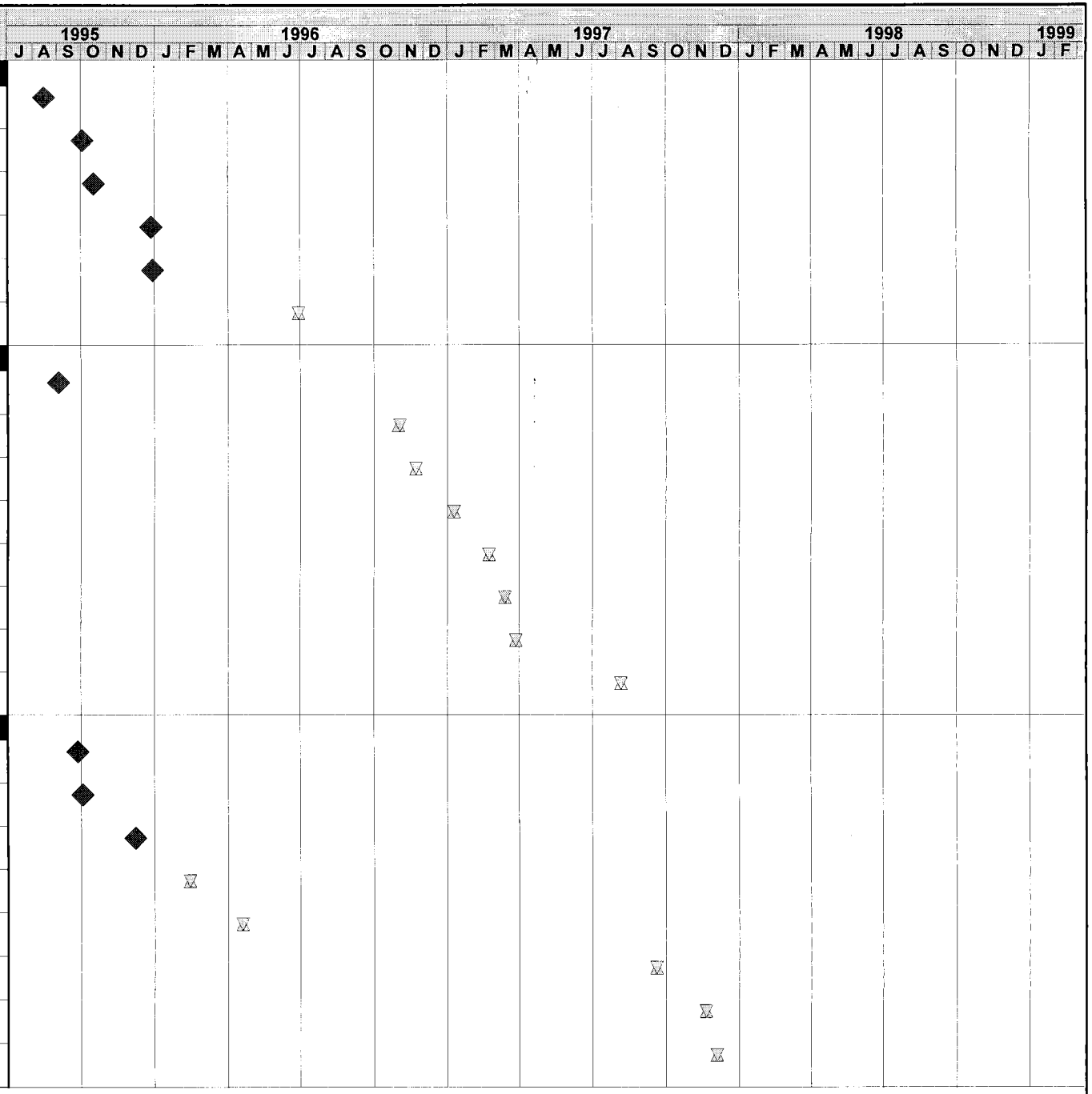
1997 GENERAL DELIVERABLES	**TARGET DATES**
1st Qtr. Quarterly Progress Report	30 April 1997
2nd Qtr. Quarterly Progress Report	30 July 1997
3rd Qtr. Quarterly Progress Report	30 October 1997
4th Qtr. Quarterly Progress Report	30 January 1998

PRIMARY DELIVERABLES	**DUE DATES**
1998 Site Management Plan	1 September 1997

7. OPERATIONAL UNIT NARRATIVES

The following are narratives describing the contents of each OU. A description of the physical location and terrain is furnished. What is known about the contamination and an assessment of its present threat is included. The events for the upcoming year are listed and the due dates of primary documents and the target dates of secondary documents are provided. A schedule of the projected submittal dates for primary documents only is included for the first outlying year. For the long term view, a list of projected schedule program tasks through the finalization of the Record of Decision is included.

Activity description	Finish
OPERABLE UNIT ONE	
SUBMIT FINAL DRAFT RI/FS	14AUG95*
SUBMIT FINAL RI/FS & DRAFT PROPOSED PLAN/ROD RPT	02OCT95*
DELIVER FINAL RDS APPENDICES	16OCT95*
SUBMIT FINAL ROD for OU1	26DEC95*
RDS DECISION LETTERS	28DEC95*
OU1 DESIGN DOCUMENT	28JUN96*
OPERABLE UNIT TWO	
SUBMIT PRELIM DESIGN DOC TO NAVY - PSC 42	01SEP95*
SUBMIT CLOSURE REPORT FOR PSC 42 (PROPOSED)	31OCT96*
SUBMIT FINAL DRAFT RI/FS RPT TO REGULATORS	20NOV96*
SUBMIT FINAL DRAFT PP TO REGULATORS/NAVY	08JAN97*
SUBMIT FINAL DRAFT ROD TO REGULATORS/NAVY	20FEB97*
SUBMIT FINAL PP TO NAS JACKSONVILLE	12MAR97*
SUBMIT FINAL RI/FS RPT TO REGULATORS/NAVY	27MAR97*
SUBMIT FINAL ROD TO NAS JAX FOR SIGNATURE	05AUG97*
OPERABLE UNIT THREE	
SUBMIT ACTION MEMO TO REGULATORS/NAVY - 106/780	25SEP95*
SUBMIT DRAFT PRELIMI DSGN DOC TO NAVY - 106/780	02OCT95*
SUBMIT FINAL DESIGN TO NAVY - 106/780	06DEC95*
SUBMIT FD HASP/FSAP TO REGULATORS/NAVY - EE/CA	12FEB96*
SUBMIT FNL HASP/FSAP TO NAVY/REGULATORS - EE/CA	18APR96*
SUBMIT EE/CA TO NAS JACKSONVILLE	18SEP97*
SUBMIT IRA DESIGN TO REGULATORS/NAVY	20NOV97*
SUBMIT ACTION MEMO TO NAS JACKSONVILLE	04DEC97*



Project Start	01APR95
Project Finish	30DEC98
Data Date	01JUL95
Plot Date	31AUG95

Early Bar
Progress Bar
Critical Activity

SMPO

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Activity description	Finish	1995 J A S O N D	1996 J F M A M J J A S O N D	1997 J F M A M J J A S O N D	1998 J F M A M J J A S O N D	1999 J F
SUBMIT IRA DESIGNS TO NAVY	09FEB98*				⧖	
RI/FS FINAL DRAFT REPORT OU3 RI/FS	30JUN98*				⧖	
FINAL RI/FS - DRAFT PP - ROD FOR OU3 RI/FS	31AUG98*				⧖	
FINAL PP FOR OU3 RI/FS	30OCT98*				⧖	
ROD FOR OU3 RI/FS	30DEC98*				⧖	⧖

*** Projected time for OU3 RI/FS assumes no evaluation of IRA technologies.**

A. RI/FS Operable Unit #1: The Oil and Solvent Disposal Area

Description:

An area of approximately 40 acres located in the south central part of the Site. The topology is open and relatively flat. The unit is located within a drainage ditch network. In an included area approximately 150 feet square, PCB transformers were stored. This unit is comprised of PSC 26 - The Old Main Registered Disposal Area and PSC 27 - Former Transformer Storage Area. Previous studies have identified ground water and subsurface soils contaminated with industrial solvents, heavy metals, PCBs and petroleum hydrocarbons. The unit has experienced interim remedial measures that have removed the direct exposure threat to the public's health or the environment.

Work to Date:

The RI/FS Work Plan for this OU has been developed, accepted, and implemented. The required supplemental field work has been completed. The initial field work validated the location of a large concentration (+/- 3%) of petroleum hydrocarbons contaminated with PCBs. A focused effort was implemented for source mitigation. The focused RI/FS report was completed. The IROD for the focused effort was completed. A remedial Action was implemented in 1995.

1996 Primary Deliverables	**Target Date**
OU#1 Remedial Design	28 June 1996

1996 Secondary Deliverables	**Target Date**
-- NONE --	-- NONE --

Projected 1997 Primary Deliverables	**Projected Target Date**
-- NONE --	-- NONE --

Projected 1997 Secondary Deliverables	**Projected Target Date**
-- NONE --	-- NONE --

B. RI/FS Operable Unit#2: The Wastewater Treatment Area

Description:

An area on the Northwest end of the air station comprising six PSCs: 2 - Former Fire Fighting Training Area, 3 - Former Sludge Disposal Area, 4 - Pine Tree Planting Area, 41 - Former Domestic Sludge Drying Beds, 42 - Former Polishing Pond, and 43 - Former Industrial Sludge Drying Beds. The area is the location of the station's domestic and industrial wastewater plants, is bounded on the north by the St. Johns River, and, despite its relatively flat topography, is a hydrologic high. The groundwater underlying the area has known contamination, consisting of industrial solvents and heavy metals. No direct exposure threat is presently known to exist to public health or the environment.

Work to Date:

The RI/FS Work Plan was finalized January 1993. Due to funding constraints, the Work Plan has been implemented in a phased approach. A focused RI/FS for source mitigation of the areas identified as PSC 2, 41, and 43 has been completed. The focused remedial action for those PSCs will be completed in 1995. A focused RI/FS for source mitigation of the areas identified as PSC 41 and 43 has been completed. Focused Remedial Actions at PSC 42 is anticipated to commence in late 1995. An RI/FS is currently underway for the entire OU.

1996 Primary Deliverables	**Target Dates**
--NONE--	--NONE--

1996 Secondary Deliverables	**Target Dates**
--NONE--	--NONE--

Projected 1997 Primary Deliverables	**Projected Target Dates**
OU#2 Final RI/FS Report	27 March 1997
OU#2 Final ROD	5 August 1997

Projected 1997 Secondary Deliverables	**Projected Target Dates**
-- NONE --	-- NONE --

C. RI/FS Operable Unit #3: The Industrial Area

Description:

An area on the east side of the Air Station comprising six PSCs: 11-Hanger 101, 12-Old Test Cell Building 101K, 13-Former Radium Paint Waste Disposal Pit, 14-Battery Shop, 15-Former Solvent and Paint Sludge Disposal Area, 48-Base Dry Cleaners. The area is flat and adjacent to the St. Johns River. Located within this industrial complex is the Naval Aviation Depot and several helicopter squadrons. Previous studies have identified groundwater and subsurface soils contaminated with industrial solvents and heavy metals. No direct exposure threat is presently known to exist to public health or the environment.

Work to Date:

Specific scoping field work requirements were identified at a meeting held in April 1993 at NADEP on NAS Jacksonville. Scoping field work preparatory to the development of a site workplan was performed between July and September 1993. The OU#3 RI/FS work plan has been prepared and accepted by all regulatory agencies. An EE/CA for source mitigation at buildings 106 and 780 has been completed. An EE/CA is to be prepared for the entire OU in conjunction with the RI/FS effort. The EE/CA approach was agreed to by the NAS Jacksonville partnering team in order that innovative technologies, such as geostatistics, may by utilized to determined the best method for the final remedial action.

1996 Primary Deliverables	**Target Dates**
-- NONE --	-- NONE --

1996 Secondary Deliverables	**Target Dates**
-- NONE --	-- NONE --

Projected 1997 Primary Deliverables	**Projected Target Dates**
--NONE--	--NONE--

Projected 1997 Secondary Deliverables	**Projected Due Dates**
--NONE--	--NONE--